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***Don't forget to sign up on the reflector!!
June 2013 Edition***

From the President ...

I hope all of you are having a great summer filled with radio projects and some relaxation. I've traveled quite a bit so haven't been on as much as I would have liked to or gotten to build much, but hopefully things slow down this fall.

Field Day turned out well. We had a nice time at the campground in Savage. Thanks to Tom, WM0SS, and Larry, KB0R, for getting it set up. See more information in Tom's write-up below. Also you can check out more pictures on the website at <http://www.mn-arts.org/meetings/upcoming/201306-fieldday>. Included in the day was a presentation to Craig, AA0ZZ, from Mert, W0UFO, a plaque honoring his induction into the QRP ARCI Hall of Fame during FDI at Dayton this year - Congratulations Craig!

I also visited some of our members at various club sites on Saturday afternoon. Glad to see so many involved in field day.

73 de chuck ka8hde

Congratulations to AA0ZZ on being inducted into the QRP ARCI Hall of Fame



Craig/AA0ZZ

Mert/W0UFO

August Presentation

Tom Kent/WM0SS will speak on: *A Competitive QRP Field Day Station using an Array of four End-fed Dipoles*

June Meeting Minutes

Chuck Stroud/KA8HDE started the meeting at 1:30 with introductions from the members. 27 in attendance.

The April and May meeting minutes were approved.

Treasurers Report: Paul Bushouse/N0TYE tells us that there is \$1170 in the checking account and no bills pending at this time.

Old Business:

- Field Day plans were discussed. Tom Kent offered the use of the area by his office which is just north of 494. He also made tentative arrangements for a few spots at a campground off 169. There is also the possibility of a spot in Maple Grove. The committee will make a decision by next weekend and inform the group via the Reflector.

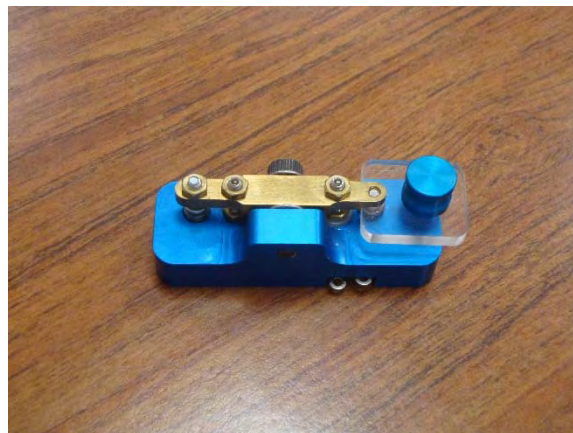
New Business:

- **Craig Johnson/AA0ZZ** was inducted into the QRP Hall of Fame. Congratulations were extended to Craig by those in attendance.
- **Mert Nellis/W0UFO** had another article published in this month's issue of QST. It is the circuit for a battery monitor. Great job Mert!!!
- We need a presentation for the August meeting.

Business meeting was adjourned.

Show & Tell:

John Krawczak/KJ0P brought in a small key he obtained at the 3M swap meet earlier in the day. It is made by American Morse.



Craig Siegenthaler/AC0WQ showed us his recently finished Norcal 20 which he obtained on e-bay. He was particularly impressed with the performance of the DC converter and gave us an overview of it's operation and the quadrature detector. This is a Dan Taylo design. As this was a partial kit he obtained the balance of the surface mount components from Digi-Key & Mouser. Craig has also recently finished the 30 meter version of this radio.

Craig also brought in a battery pack containing Li-Po style batteries. He explained how the charging circuit balances each cell and protects against overcharging. He additionally brought in for the club members knobs & switches.

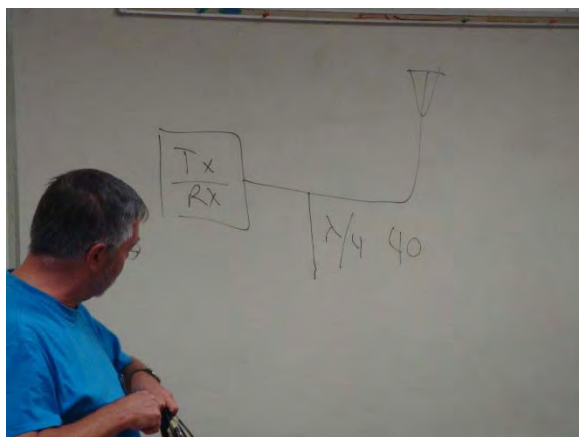


Wayne Holmgren/KD0JXC brought in a kit he has been working on for a while and explained the difficulties he has encountered particularly with regard to the transmitter section.

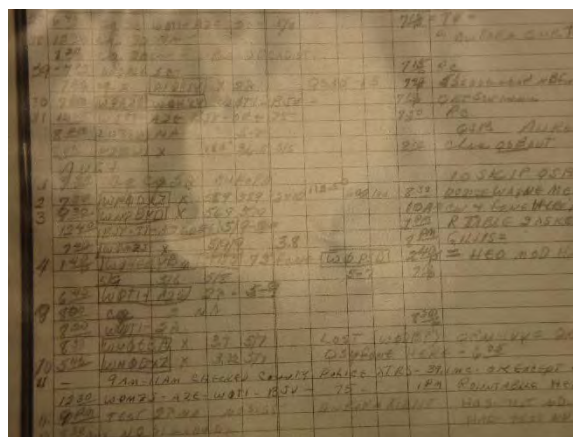




Bill Unger/VE3XT showed us a quarter wave stub he built for reducing interference – particularly during Field Day. The design was built for 40/20 meters with a switch that allows you to switch between them. Bill drew us a circuit diagram explained how it worked.

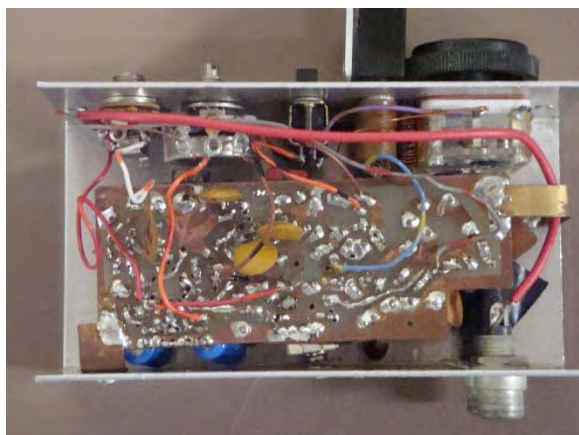
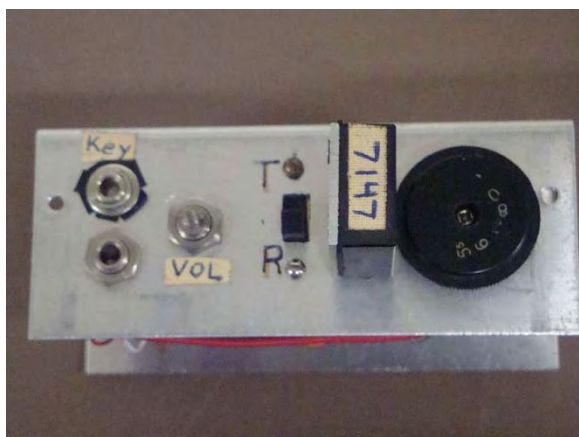


Gary Meyer/W0DYD brought in a log which showed his first CW contact back in 1951. The log was provided by the grandson of the ham he had the initial QSO with. This ham, now SK, had logs dating back to 1926.



Tom Kent/WM0SS brought in a home brew QRP rig that he built back in the 70's from plans in the old Ham Radio magazine.





June Presentation

Russ Ramirez/K0WFS gave us an excellent lecture on the popular digital modes including: RTTY, PSK, Olivia, Contestia, hellschreiber, JT65 & WISP. He also explained how RSID works for identifying the various modes. Russ had audio clips for the modes he talked about which was very useful in associating the mode with what we have heard on the band. Thanks Russ for an excellent presentation!!



Respectfully submitted,

Steve, NW0C

Club Officers:

President: Chuck Stroud/KA8HDE
Vice Pres: Larry Gaalaas/KB0R
Secretary: Steve Ulrich/NW0C
Treasurer: Paul Bushouse/N0TYE
At Large: Tom Kent

ka8hde79@gmail.com
larry@circleg.net
ulrichs@comcast.net
p-bushouse@bethel.edu
tkent1952@gmail.com

MARTS 2013 Field Day Report

by Tom Kent, WM0SS

The MARTS 2013 Field Day station was set up at Town and Country Campgrounds, Savage MN, and operated from 1 PM CDT, Saturday, June 22, 2013 to 11:00 AM Sunday, June 23, 2013. MARTS members participating were Chuck KA8HDE, Larry KB0R, Tom WM0SS, Paul N0TYE, Craig AA0ZZ and Mert W0UFO.

The CW/SSB station consisted of Larry's Yaesu FT-900 (~100W) with Tom's LnR Precision EF-10/20/40MKII end-fed dipole. The antenna was up ~20 feet and more or less horizontal, aligned N/S. It performed well at this power level. Power to the FT-900 was provided 100% by a Interstate Marine Deep Cycle battery at nominal 12 V and 90 Ah capacity. Field Day operating class was 1A.

The field day call sign was AA0MN. We did not have a GOTA station.

Larry also made at a few QSOs using a QRP CW transceiver (Larry, what model?) and a multi-band (3 loaded whips) antenna mounted atop his car. That antenna provided operation in the 15 meter band.

Tom's effort to put his Flex-1500 transceiver on the air in the PSK-31 mode failed due to the lack of two virtual audio cables. (I looked all over and never did find those cables ;)

The log files are attached. Briefly, the contest results were CW QSOs 119 (x2 points), Digital QSOs 0, Phone QSOs 63, Power multiplier X2, Total Score 602

Thanks to Chuck and Paul for bringing food for the overnights, Larry and Tom.

Mert presented Craig with a plaque commemorating Craig's recent induction into the QRP Hall of Fame at the FQIM Banquet in Dayton, Ohio. Thanks, Mert. Way to go Craig!

Everyone was happy with the site and a suggestion was made to use the same site next year. Total expense for renting the three camp sites was \$110 or so.



100W CW/SSB Rig



Larry in the Temple



Chuck racking up phone points



Craig and Mert